EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	20	"5723616"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 12:29
L2	3	"2002018319"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 14:07
L3	2	"20020018319"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 12:31
L4	2	"200218319"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 12:31
L5	0	"200200018319"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 12:31
L6	335	alzheimer and 514/278.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 14:13
L7	152	l6 and @py<"2003"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 14:10
L8	18	l7 and (growth adj hormone)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 14:13
L9	112	alzheimer and 514/570.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 14:13

EAST Search History

L10	4	l9 and (secretase adj inhibitor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 14:14
S1	5	"2004080459"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 08:29
S2	5	"2004045592"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 08:35
S3	5	"2004031137"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 08:38
S4	4	"2003018543"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/24 12:26

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Connecting via Winsock to STN


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LOGINID:ssptakdc1617

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TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2  JAN 08   CHEMLIST enhanced with New Zealand Inventory of Chemicals
 NEWS  3  JAN 16   CA/CAplus Company Name Thesaurus enhanced and reloaded
 NEWS  4  JAN 16   IPC version 2007.01 thesaurus available on STN
 NEWS  5  JAN 16   WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
 NEWS  6  JAN 22   CA/CAplus updated with revised CAS roles
 NEWS  7  JAN 22   CA/CAplus enhanced with patent applications from India
 NEWS  8  JAN 29   PHAR reloaded with new search and display fields
 NEWS  9  JAN 29   CAS Registry Number crossover limit increased to 300,000 in
                   multiple databases
 NEWS 10  FEB 15   PATDPASPC enhanced with Drug Approval numbers
 NEWS 11  FEB 15   RUSSIAPAT enhanced with pre-1994 records
 NEWS 12  FEB 23   KOREAPAT enhanced with IPC 8 features and functionality
 NEWS 13  FEB 26   MEDLINE reloaded with enhancements
 NEWS 14  FEB 26   EMBASE enhanced with Clinical Trial Number field
 NEWS 15  FEB 26   TOXCENTER enhanced with reloaded MEDLINE
 NEWS 16  FEB 26   IFICDB/IFIPAT/IFIUDB reloaded with enhancements
 NEWS 17  FEB 26   CAS Registry Number crossover limit increased from 10,000
                   to 300,000 in multiple databases
 NEWS 18  MAR 15   WPIDS/WPIX enhanced with new FRAGHITSTR display format
 NEWS 19  MAR 16   CASREACT coverage extended
 NEWS 20  MAR 20   MARPAT now updated daily
 NEWS 21  MAR 22   LWPI reloaded
 NEWS 22  MAR 30   RDISCLOSURE reloaded with enhancements
 NEWS 23  MAR 30   INPADOCDB will replace INPADOC on STN
 NEWS 24  APR 02   JICST-EPLUS removed from database clusters and STN

 NEWS EXPRESS  NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN    Welcome Banner and News Items
 NEWS IPC8     For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
specific topic.

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* * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 08:11:18 ON 24 APR 2007

=> file reg
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 08:11:45 ON 24 APR 2007

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 22 APR 2007 HIGHEST RN 931834-80-9
DICTIONARY FILE UPDATES: 22 APR 2007 HIGHEST RN 931834-80-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
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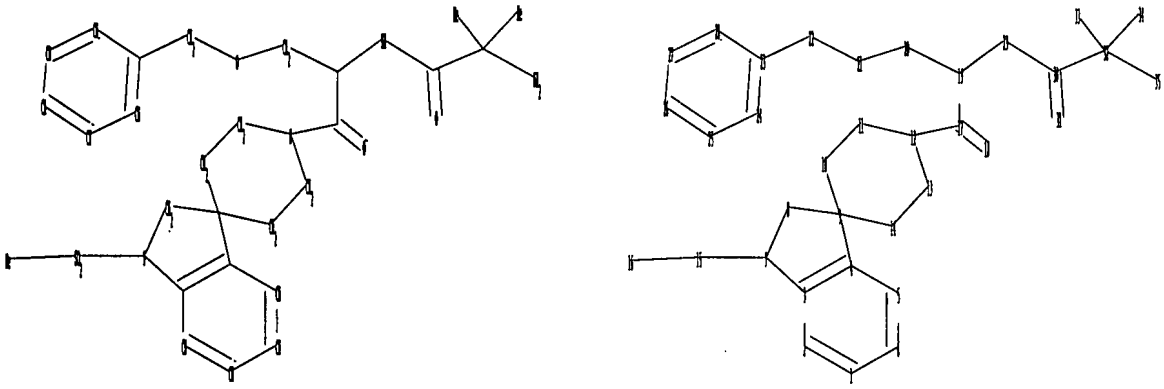

chain nodes :
15 16 17 18 19 20 21 22 29 30 31 32 33 34 35
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 23 24 25 26 27 28
chain bonds :
7-15 12-17 15-16 17-18 17-19 19-20 19-29 20-21 21-22 22-23 29-30 30-31 30-32 32-33 32-34 32-35
ring bonds :
1-2 1-6 2-3 3-4 3-7 4-5 4-9 5-6 7-8 8-9 9-10 9-14 10-11 11-12 12-13 13-14 23-24 23-28 24-25 25-26 26-27 27-28
exact/norm bonds :
3-7 4-9 7-8 7-15 8-9 9-10 9-14 10-11 11-12 12-13 12-17 13-14 17-18 19-29 29-30 30-31 32-35
exact bonds :
15-16 17-19 19-20 20-21 21-22 22-23 30-32 32-33 32-34
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 23-24 23-28 24-25 25-26 26-27 27-28

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom
28:Atom 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS

L1 STRUCTURE UPLOADED

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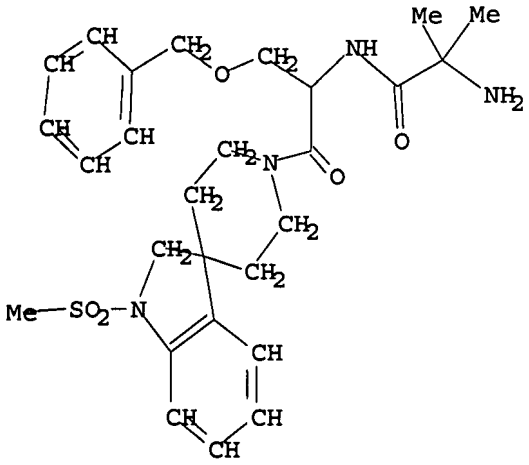
L1 STR



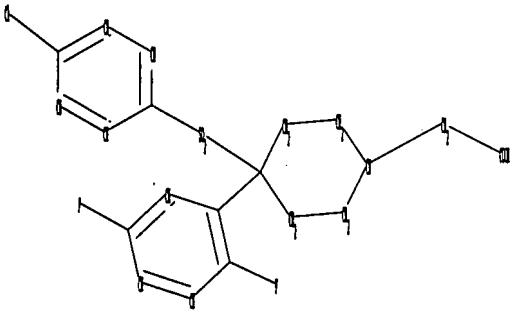
Structure attributes must be viewed using STN Express query preparation.

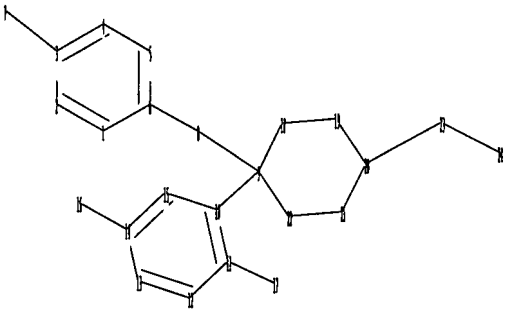
=> s l1 full
FULL SEARCH INITIATED 08:12:14 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 257 TO ITERATE

100.0% PROCESSED 257 ITERATIONS 18 ANSWERS
SEARCH TIME: 00.00.01

L2 18 SEA SSS FUL L1

=>
Uploading C:\Program Files\Stnexp\Queries\10560092B.str





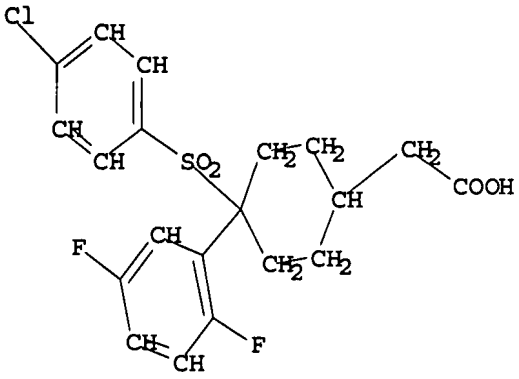
chain nodes :
7 8 16 17 23 24
ring nodes :
1 2 3 4 5 6 9 10 11 12 13 14 15 18 19 20 21 22
chain bonds :

3-7 6-8 8-9 9-10 11-17 14-16 20-23 23-24
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 9-18 9-22 10-11 10-15 11-12 12-13 13-14 14-15
18-19 19-20 20-21 21-22
exact/norm bonds :
9-18 9-22 18-19 19-20 20-21 21-22
exact bonds :
3-7 6-8 8-9 9-10 11-17 14-16 20-23 23-24
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 10-11 10-15 11-12 12-13 13-14 14-15

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 17:CLASS 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:CLASS 24:CLASS

L3 STRUCTURE UPLOADED

=> d l3
L3 HAS NO ANSWERS
L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l3 full
FULL SEARCH INITIATED 08:12:55 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 744 TO ITERATE

100.0% PROCESSED 744 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L4 1 SEA SSS FUL L3

=> d l2 1

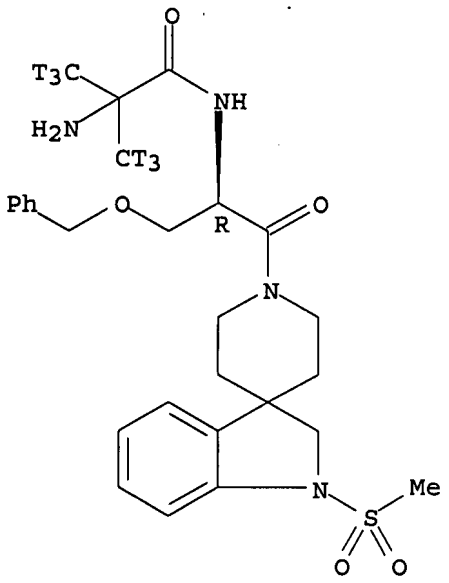
L2 ANSWER 1 OF 18 REGISTRY COPYRIGHT 2007 ACS on STN
RN 817203-70-6 REGISTRY
ED Entered STN: 20 Jan 2005
CN Propanamide-3,3,3-t3, 2-amino-N-[(1R)-2-[1,2-dihydro-1-
(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-
[(phenylmethoxy)methyl]ethyl]-2-(methyl-t3)-, monomethanesulfonate (9CI)
(CA INDEX NAME)
FS STEREOSEARCH
MF C27 H30 N4 O5 S T6 . C H4 O3 S

SR CA
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

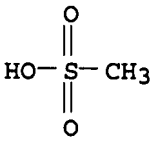
CRN 817203-69-3
CMF C27 H30 N4 O5 S T6

Absolute stereochemistry.



CM 2

CRN 75-75-2
CMF C H4 O3 S

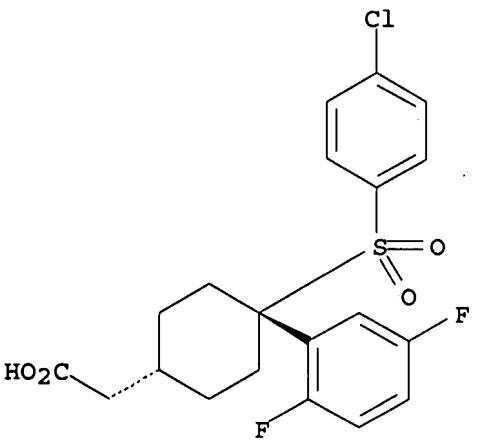


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d l4

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
RN 471903-69-2 REGISTRY
ED Entered STN: 08 Nov 2002
CN Cyclohexaneacetic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)-, cis- (CA INDEX NAME)
OTHER NAMES:
CN [cis-4-(4-Chlorophenylsulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]acetic acid
FS STEREOSEARCH
MF C20 H19 Cl F2 O4 S
SR CA
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPAT2, USPATFULL

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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COST IN U.S. DOLLARS                        SINCE FILE      TOTAL
                                               ENTRY    SESSION
FULL ESTIMATED COST                           349.45     349.66

FILE 'HCAPLUS' ENTERED AT 08:14:27 ON 24 APR 2007
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FILE COVERS 1907 - 24 Apr 2007  VOL 146 ISS 18
FILE LAST UPDATED: 23 Apr 2007  (20070423/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s l2 and l4
           136 L2
             5 L4
L5           0 L2 AND L4

=> s l2 and alzheimer
           136 L2
         44478 ALZHEIMER
L6          15 L2 AND ALZHEIMER
```

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=> s l4 and alzheimer
             5 L4
         44478 ALZHEIMER
L7           4 L4 AND ALZHEIMER

=> dup rem l6 l7
PROCESSING COMPLETED FOR L6
PROCESSING COMPLETED FOR L7
L8          19 DUP REM L6 L7 (0 DUPLICATES REMOVED)

=> s l2 and (neurodegenerative or cognitive or dementia)
           136 L2
         17788 NEURODEGENERATIVE
         19924 COGNITIVE
         13813 DEMENTIA
L9          15 L2 AND (NEURODEGENERATIVE OR COGNITIVE OR DEMENTIA)

=> s l4 and (neurodegenerative or cognitive or dementia)
             5 L4
         17788 NEURODEGENERATIVE
         19924 COGNITIVE
         13813 DEMENTIA
L10          0 L4 AND (NEURODEGENERATIVE OR COGNITIVE OR DEMENTIA)

=> dup rem l8 l9
PROCESSING COMPLETED FOR L8
PROCESSING COMPLETED FOR L9
L11         20 DUP REM L8 L9 (14 DUPLICATES REMOVED)

=> d ed abs ibib hitstr 1-
YOU HAVE REQUESTED DATA FROM 20 ANSWERS - CONTINUE? Y/(N):y

L11  ANSWER 1 OF 20  HCAPLUS  COPYRIGHT 2007 ACS on STN DUPLICATE 1
ED   Entered STN:  16 Feb 2007
GI
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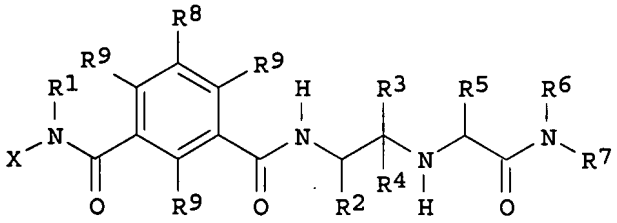
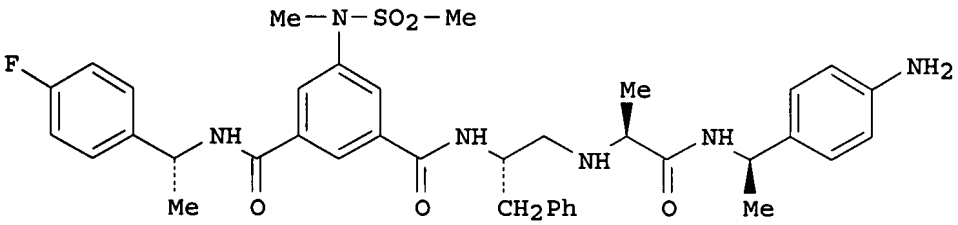


I



II

AB Title compds. I [X = B-A-(L)i; B = alkylene with provisos; A = aryl, heteroaryl; L = H, halo, OH, etc.; i = 0-3; R1 = H, alkyl, alkenyl, etc.; R2 = alkyl, alkenyl, alkynyl, etc.; R3, R4 = H, alkyl, F, etc.; R5 = H, alkyl, alkenyl, etc.; R6 = alkenyl, alkynyl, cycloalkyl, etc.; R7 = H, alkyl, alkenyl, etc.] and their pharmaceutically acceptable salts and formulations were prepared For example, isophthalamide II was prepared from Me 2-aminoisophthalate in 9-steps. Compds. I are claimed useful as

β-secretase inhibitors.

ACCESSION NUMBER: 2007:175504 HCAPLUS
DOCUMENT NUMBER: 146:251613
TITLE: Preparation of isophthalamides for the treatment of Alzheimer's disease
INVENTOR(S): Fuchs, Klaus; Eickmeier, Christian; Heine, Niklas; Peters, Stefan; Dorner-Ciossek, Cornelia; Handschuh, Sandra; Nar, Herbert; Klinder, Klaus
PATENT ASSIGNEE(S): Boehringer Ingelheim International GmbH, Germany; Boehringer Ingelheim Pharma Gmbh & Co. KG
SOURCE: PCT Int. Appl., 223pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007017511	A2	20070215	WO 2006-EP65157	20060808

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

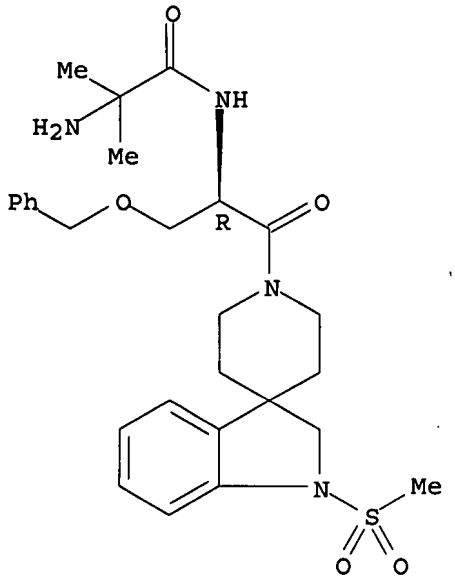
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: EP 2005-17475 A 20050811
OTHER SOURCE(S): MARPAT 146:251613
IT 159752-10-0, Ibutamoren mesylate
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(medicaments with; preparation of isophthalamides for the treatment of Alzheimer's disease)
RN 159752-10-0 HCAPLUS
CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

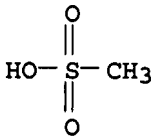
CRN 159634-47-6
CMF C27 H36 N4 O5 S

Absolute stereochemistry.

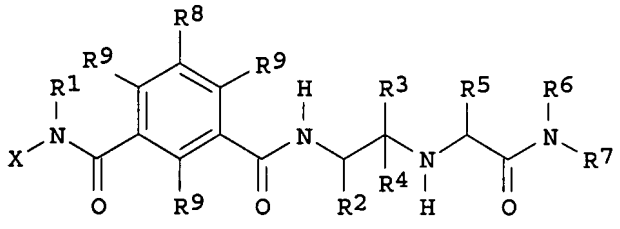


CM 2

CRN 75-75-2
CMF C H4 O3 S



L11 ANSWER 2 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 2
ED Entered STN: 16 Feb 2007
GI



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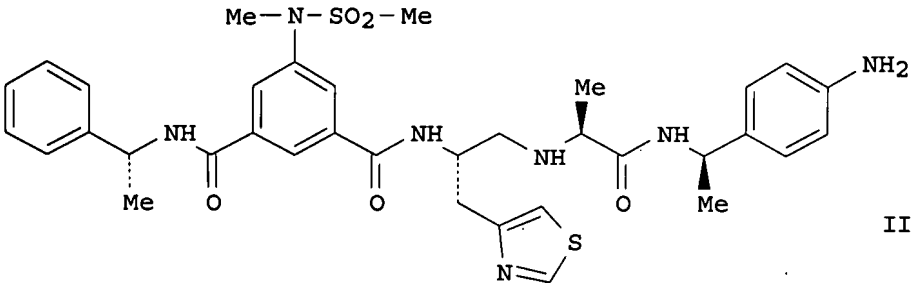


II

AB Title compds. I [X = B-A-(L)i; B = alkylene with provisos; A = aryl, heteroaryl; L = H, halo, OH, etc.; i = 0-3; R1 = H, alkyl, alkenyl, etc.; R2 = alkyl, alkenyl, alkynyl, etc.; R3, R4 = H, alkyl, F, etc.; R5 = H, alkyl, alkenyl, etc.; R6 = alkenyl, alkynyl, cycloalkyl, etc.; R7 = H, alkyl, alkenyl, etc.] and their pharmaceutically acceptable salts and formulations were prepared For example, the TFA salt of isophthalamide II was prepared from Me 2-aminoisophthalate in 5-steps. Compds. I are claimed useful as β-secretase inhibitors.

ACCESSION NUMBER: 2007:175501 HCAPLUS
DOCUMENT NUMBER: 146:251612
TITLE: Preparation of isophthalamides for the treatment of Alzheimer's disease
INVENTOR(S): Heine, Niklas; Fuchs, Klaus; Eickmeier, Christian; Peters, Stefan; Dorner-Ciossek, Cornelia; Handschuh, Sandra; Nar, Herbert; Klinder, Klaus
PATENT ASSIGNEE(S): Boehringer Ingelheim International GmbH, Germany; Boehringer Ingelheim Pharma Gmbh & Co. KG
SOURCE: PCT Int. Appl., 153pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007017510	A2	20070215	WO 2006-EP65155	20060808

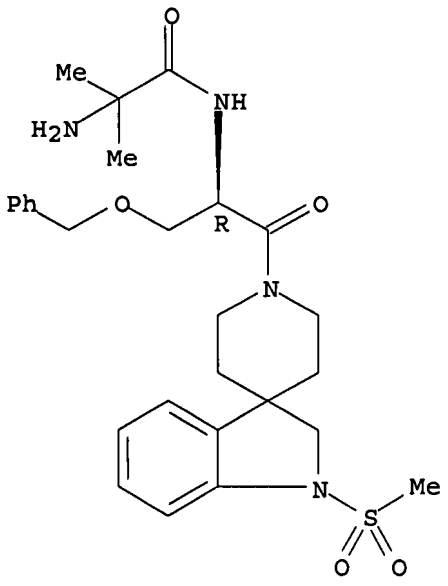
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: EP 2005-17478 A 20050811
OTHER SOURCE(S): MARPAT 146:251612
IT 159752-10-0, Ibutamoren mesylate
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(medicaments with; preparation of isophthalamides for the treatment of Alzheimer's disease)
RN 159752-10-0 HCAPLUS
CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

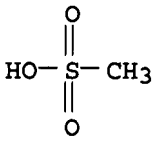
CRN 159634-47-6
CMF C27 H36 N4 O5 S

Absolute stereochemistry.

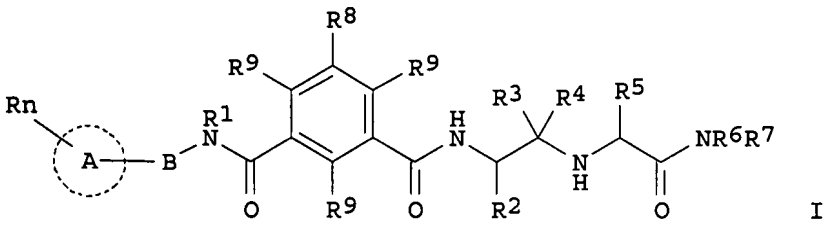


CM 2

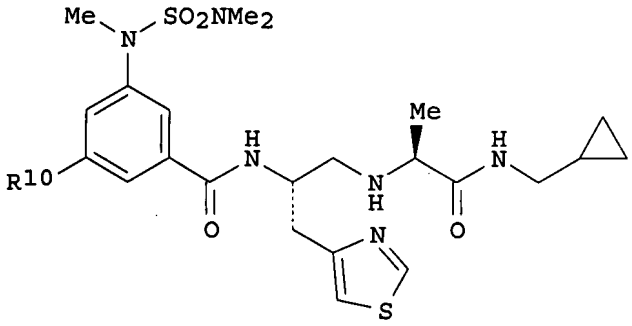
CRN 75-75-2
CMF C H4 O3 S



L11 ANSWER 3 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 3
ED Entered STN: 16 Feb 2007
GI



I



II

AB Title compds. [I; A = (substituted) (hetero)aryl; R = H, F, Cl, Br, iodo, OH, CO2H, CHO, cyano, NO2, CF3, etc.; n = 0-3; B = (substituted) alkylene; R1 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, etc.; R2 = (substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, etc.; R3, R4 = H, alkyl, F, CF3, CHF2, CH2F; R5 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, etc.; R6 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, etc.; R7 = H, (substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, cycloalkyl, cycloalkylalkyl, etc.; R8 = H, F, Cl, Br, iodo, cyano, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, etc.; R9 = H, F, Cl, Br, iodo, (substituted) alkyl, etc.], salts, diastereomers, enantiomers, racemates, hydrates and solvates thereof were prepared Thus, II (R10 = CO2H) in CH2Cl2 was treated with TBTU (O-(benzotriazol-1-yl)-N,N,N',N',-tertramethyluronium tetrafluoroborate), DIPEA (diisopropylethylamine), and 1-(pyrid-2-yl)ethylamine followed by stirring for 1 h at room temperature to give II (R10 = 1-(pyrid-2-yl)ethylaminocarbonyl). Tested I inhibited β-secretase with IC50 <30 μM.

ACCESSION NUMBER: 2007:173914 HCAPLUS
DOCUMENT NUMBER: 146:251873
TITLE: Preparation of heteroaryl 1,2-ethylenediamines as β-secretase inhibitors for treatment of Alzheimer's disease
INVENTOR(S): Fuchs, Klaus; Eickmeier, Christian; Heine, Niklas; Peters, Stefan; Dorner-Ciossek, Cornelia; Handschuh, Sandra; Nar, Herbert; Klinder, Klaus
PATENT ASSIGNEE(S): Boehringer Ingelheim International G.m.b.H., Germany; Boehringer Ingelheim Pharma G.m.b.H. & Co. K.-G.
SOURCE: PCT Int. Appl., 141pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007017509	A1	20070215	WO 2006-EP65154	20060808

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: EP 2005-17476 A 20050811

OTHER SOURCE(S): MARPAT 146:251873

IT 159752-10-0, Ibutamoren mesylate

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (coadministration; preparation of heteroaryl ethylenediamines as β-secretase inhibitors for treatment of Alzheimer's diseases)

RN 159752-10-0 HCAPLUS

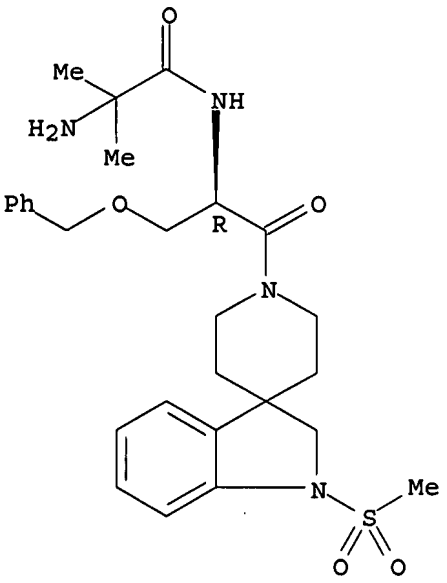
CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

CRN 159634-47-6

CMF C27 H36 N4 O5 S

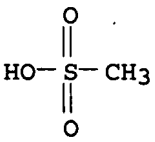
Absolute stereochemistry.



CM 2

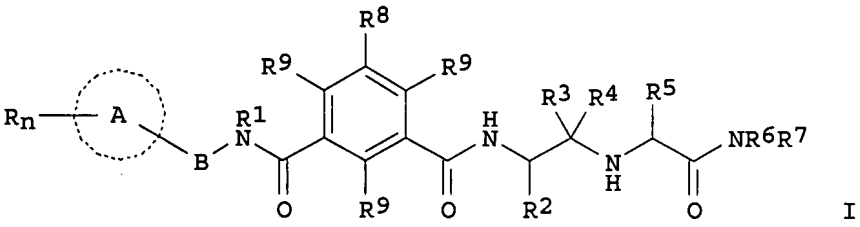
CRN 75-75-2

CMF C H4 O3 S

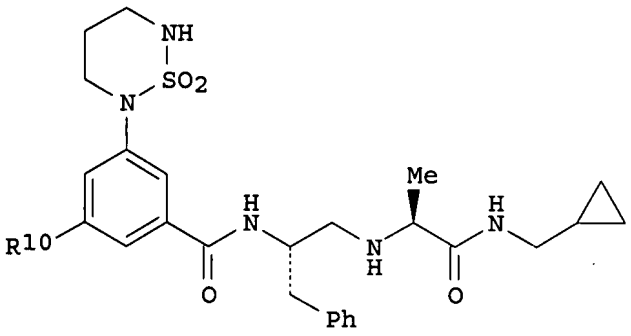


REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 4
ED Entered STN: 16 Feb 2007
GI



I



II

AB Title compds. [I; A = (substituted) (hetero)aryl; R = H, F, Cl, Br, I, OH, CO2H, CHO, cyano, NO2, CF3, etc.; n = 0-3; B = (substituted) alkylene; R1 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, etc.; R2 = (substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, etc.; R3, R4 = H, alkyl, F, CF3, CHF2, CH2F; R5 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, etc.; R6 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, etc.; R7 = H, (substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, cycloalkyl, cycloalkylalkyl, etc.; R8 = (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, etc.; R9 = H, F, Cl, Br, I, (substituted) alkyl, etc.], salts, diastereomers, enantiomers, racemates, hydrates and solvates thereof were prepd as β-secretase inhibitors (no data). Thus, II (R10 = CO2H) in CH2Cl2 was treated with TBTU (O-(benzotriazol-1-yl)-N,N,N',N',-tertramethyluronium tetrafluoroborate), DIPEA (N-Etdiisopropylamine), and 1-(1-methyl-1H-pyrazol-4-yl)ethylamine under ice-cooling followed by stirring for 5 h at room temperature to give II (R10 = 1-(1-methyl-1H-pyrazol-4-yl)ethylaminocarbonyl).

ACCESSION NUMBER: 2007:173532 HCAPLUS
DOCUMENT NUMBER: 146:251863
TITLE: Preparation of substituted 1,2-ethylenediamines as β-secretase inhibitors for treatment of

Alzheimer's diseases

INVENTOR(S): Eickmeier, Christian; Fuchs, Klaus; Heine, Niklas; Peters, Stefan; Dorner-Ciossek, Cornelia; Handschuh, Sandra; Nar, Herbert; Klinder, Klaus

PATENT ASSIGNEE(S): Boehringer Ingelheim International G.m.b.H., Germany; Boehringer Ingelheim Pharma G.m.b.H. & Co. K.-G.

SOURCE: PCT Int. Appl., 143pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007017507	A1	20070215	WO 2006-EP65151	20060808

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: EP 2005-17477 A 20050811
OTHER SOURCE(S): MARPAT 146:251863

IT 159752-10-0, Ibutamoren mesylate
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(preparation of substituted ethylenediamines as β-secretase inhibitors for treatment of Alzheimer's diseases)

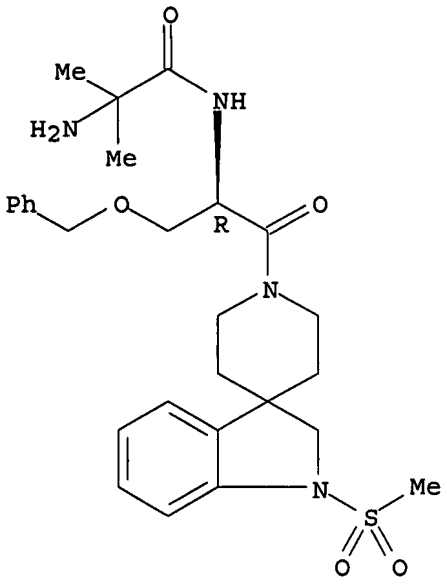
RN 159752-10-0 HCAPLUS

CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

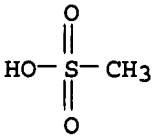
CRN 159634-47-6
CMF C27 H36 N4 O5 S

Absolute stereochemistry.



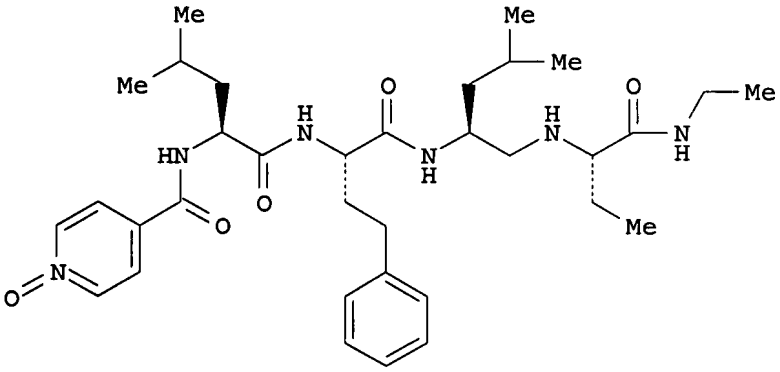
CM 2

CRN 75-75-2
CMF C H4 O3 S



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 5
ED Entered STN: 09 Feb 2007
GI



I

AB The invention relates to compds. R1CONHCHR3CONR4CHR5CONHCHR6CH2NHCHR7CONHR 2 [R1 is (hetero)alkyl, cycloalkyl, aryl, heteroaryl; R2 is alkyl,

cycloalkyl, aryl, heterocyclyl, heteroaryl; R3, R6, R7 are alkyl, cycloalkyl, aryl; R4 is H, alk(en)(yn)yl, cycloalkyl; R5 is alkyl, cycloalkyl, aryl, heteroaryl; groups R1-R7 may be substituted], including pharmaceutically-acceptable salts, enantiomers, diastereomers, etc., for use in treating or preventing Alzheimer's disease and similar diseases. Thus, peptide I was prepared by the solid-phase method and used in the preparation of a pharmaceutical formulation.

ACCESSION NUMBER: 2007:150718 HCAPLUS
DOCUMENT NUMBER: 146:229613
TITLE: Preparation of peptide 1,2-ethanediamine derivatives for the treatment of Alzheimer's disease
INVENTOR(S): Peters, Stefan; Eickmeier, Christian; Fuchs, Klaus; Stransky, Werner; Dorner-Ciossek, Cornelia; Kostka, Marcus; Handschuh, Sandra; Nar, Herbert; Bornemann, Klaus; Klinder, Klaus; Bauer, Margit
PATENT ASSIGNEE(S): Boehringer Ingelheim International GmbH, Germany; Boehringer Ingelheim Pharma Gmbh & Co. KG
SOURCE: PCT Int. Appl., 107pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007014946	A1	20070208	WO 2006-EP64885	20060801

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

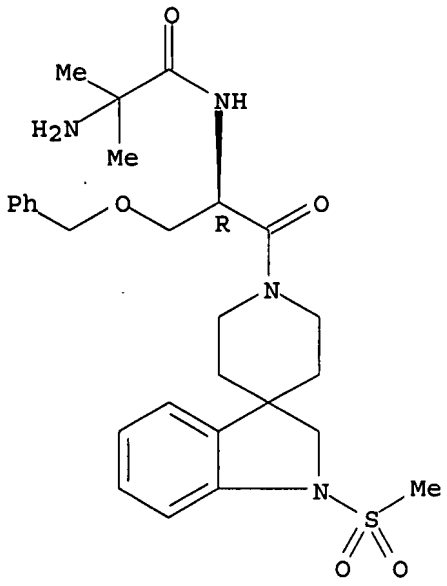
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: EP 2005-16866 A 20050803
OTHER SOURCE(S): MARPAT 146:229613
IT 159752-10-0, Ibutamoren mesylate
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(preparation of peptide 1,2-ethanediamine derivs. for the treatment of Alzheimer's disease)
RN 159752-10-0 HCAPLUS
CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

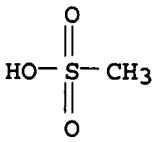
CRN 159634-47-6
CMF C27 H36 N4 O5 S

Absolute stereochemistry.



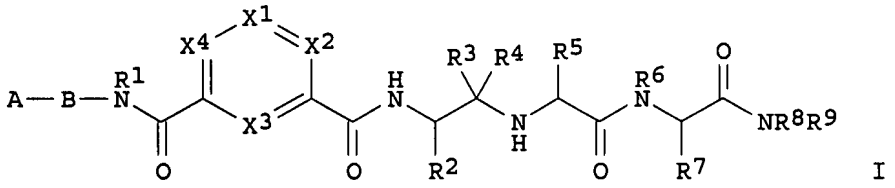
CM 2

CRN 75-75-2
CMF C H4 O3 S

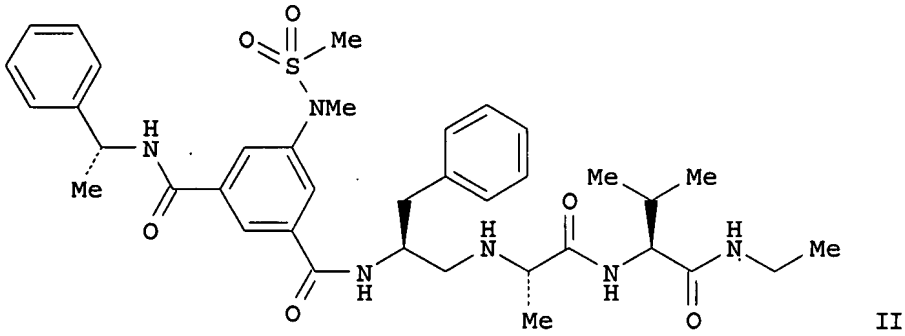


REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 6
ED Entered STN: 06 Oct 2006
GI



I



II

AB The invention relates to substituted 1,2-ethylenediamines I [A is aryl or heteroaryl which may be substituted; B is C1-4-alkylene or oxyalkylene; R1, R2, R5-R9 are H, (un)substituted alkyl, (hetero)aryl, etc. (but R2 is not H); R3, R4 are H, alkyl, F, CF3, CHF2, CH2F; X1-X4 are N, C or substituted carbon (0-3 of these groups are N)], including tautomers, diastereomers, enantiomers, and salts, and their use in the treatment of Alzheimer's disease (AD) and similar diseases. Thus, peptide II was prepared by a multistep sequence using reactants which include di-Me 5-aminoisophthalate, (R)-1-phenylethylamine, and protected amino acids. Compds. of the invention listed in a table have IC50 values < 30 μM in the β-secretase inhibition assay.

ACCESSION NUMBER: 2006:1041179 HCAPLUS
DOCUMENT NUMBER: 145:419471
TITLE: Preparation of peptide 1,2-ethylenediamine derivatives for the treatment of Alzheimer's disease
INVENTOR(S): Eickmeier, Christian; Fuchs, Klaus; Peters, Stefan; Dorner-Ciossek, Cornelia; Heine, Niklas; Handschuh, Sandra; Klinder, Klaus; Kostka, Marcus
PATENT ASSIGNEE(S): Boehringer Ingelheim International GmbH, Germany; Boehringer Ingelheim Pharma Gmbh & Co. KG
SOURCE: PCT Int. Appl., 325pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006103038	A1	20061005	WO 2006-EP2769	20060327

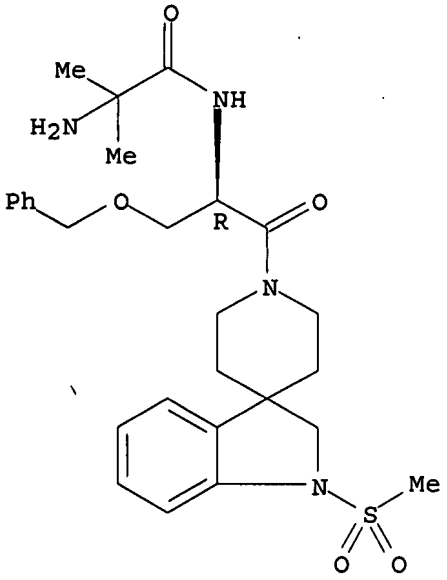
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,

KG, KZ, MD, RU, TJ, TM
US 2006223759 A1 20061005 US 2006-278059 20060330
PRIORITY APPLN. INFO.: EP 2005-6939 A 20050330
OTHER SOURCE(S): MARPAT 145:419471
IT 159752-10-0, Ibutamoren mesylate
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(preparation of peptide ethylenediamine derivs. for treatment of Alzheimer's disease)
RN 159752-10-0 HCAPLUS
CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

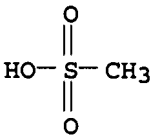
CRN 159634-47-6
CMF C27 H36 N4 O5 S

Absolute stereochemistry.



CM 2

CRN 75-75-2
CMF C H4 O3 S



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 7 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 18 Sep 2006
AB A review. Growth hormone (GH) is a pleiotropic hormone that is released from the pituitary in a pulsatile manner to promote body growth and fat mobilization and inhibit glucose utilization. The hormone interacts with most tissues of the body and there are therefore numerous pathol.

endocrine and metabolic conditions that involve or are due to faulty GH secretion. Recombinant GH has been used to treat many of these conditions, but it must be administered by injection and is associated with a number of adverse events. Researchers have speculated that synthetic GH secretagogues (GHSs) may be more effective than recombinant GH in inducing physiol. pulsatile GH secretion and have focused on identifying novel GHSs to be used clin. One promising GHS is the orally active, nonpeptide spironindolinesulfonamide ibutamoren mesilate (MK-0677, L-163194). The agent has exhibited good oral activity and duration of action and was effective clin. for a number of GH-related indications. Ibutamoren is now in phase II development for the treatment of fibromyalgia, Alzheimer 's disease and sarcopenia.

ACCESSION NUMBER: 2006:958466 HCAPLUS
DOCUMENT NUMBER: 146:308056
TITLE: Ibutamoren mesilate: growth hormone secretagogue
AUTHOR(S): Sorbera, L. A.; Bolos, J.; Serradell, N.
CORPORATE SOURCE: Prous Science, Barcelona, 08080, Spain
SOURCE: Drugs of the Future (2006), 31(5), 390-399
CODEN: DRFUD4; ISSN: 0377-8282
PUBLISHER: Prous Science
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English

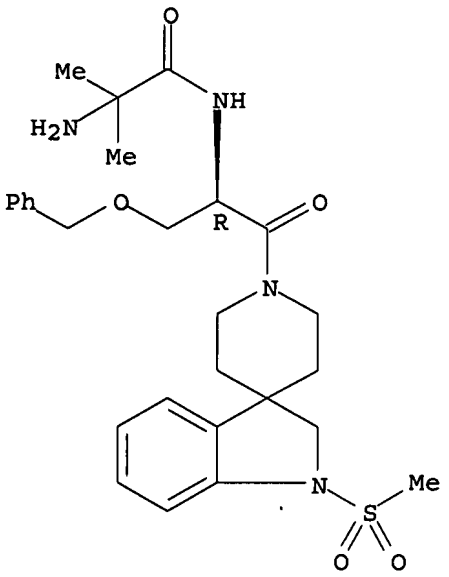
IT 159752-10-0P, Ibutamoren mesylate
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(Crescendo, MK 0677; ibutamoren mesilate synthesis, pharmacol., pharmacokinetics and efficacy in treatment of fibromyalgia, Alzheimer's disease and sarcopenia in patients)

RN 159752-10-0 HCAPLUS
CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

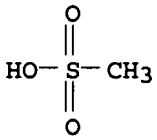
CRN 159634-47-6
CMF C27 H36 N4 O5 S

Absolute stereochemistry.



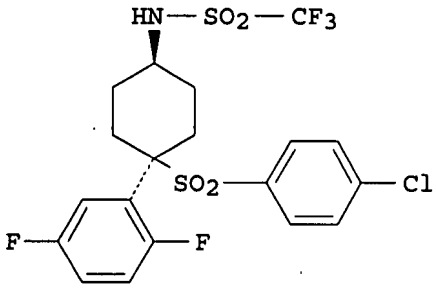
CM 2

CRN 75-75-2
CMF C H4 O3 S



REFERENCE COUNT: 62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 8 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 29 Nov 2005
GI



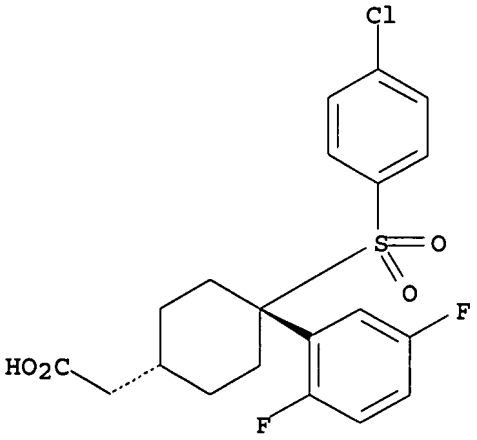
I

AB The protease γ-secretase plays a pivotal role in the synthesis of pathogenic amyloid-β in Alzheimer's disease (AD). Here, we report a further extension to a series of cyclohexyl sulfone-based γ-secretase inhibitors which has allowed the preparation of highly potent compds. which also demonstrate robust Aβ(40) lowering in vivo (e.g., compound I, MED 1 mg/kg p.o. in APP-YAC mice).

ACCESSION NUMBER: 2005:1251592 HCAPLUS
DOCUMENT NUMBER: 144:80566
TITLE: 4-Substituted cyclohexyl sulfones as potent, orally active γ-secretase inhibitors
AUTHOR(S): Churcher, Ian; Beher, Dirk; Best, Jonathan D.; Castro, Jose L.; Clarke, Earl E.; Gentry, Amy; Harrison, Timothy; Hitzel, Laure; Kay, Euan; Kerrad, Sonia; Lewis, Huw D.; Morentin-Gutierrez, Pablo; Mortishire-Smith, Russell; Oakley, Paul J.; Reilly, Michael; Shaw, Duncan E.; Shearman, Mark S.; Teall, Martin R.; Williams, Susie; Wrigley, Jonathan D. J.
CORPORATE SOURCE: Department of Medicinal Chemistry, The Neuroscience Research Centre, Merck Sharp and Dohme Research Laboratories, Harlow, Essex, CM20 2QR, UK
SOURCE: Bioorganic & Medicinal Chemistry Letters (2006), 16(2), 280-284
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

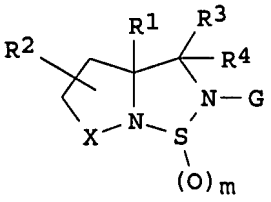
OTHER SOURCE(S): CASREACT 144:80566
IT 471903-69-2P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(cyclohexyl sulfones as γ-secretase inhibitors)
RN 471903-69-2 HCAPLUS
CN Cyclohexaneacetic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)-, cis- (CA INDEX NAME)

Relative stereochemistry.

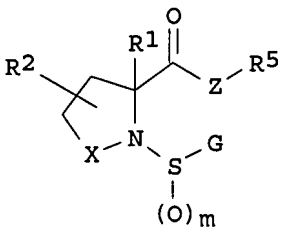


REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

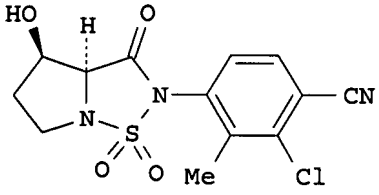
L11 ANSWER 9 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 7
ED Entered STN: 26 Aug 2005
GI



I



II



III

AB Title compds. I or II [R1 = H, (un)substituted alkyl, alkenyl, etc.; R2 = H, halo, SR6, etc.; R3 and R4 independently = H, (un)substituted alkynyl, cycloalkyl, etc.; R5 = H, (un)substituted aryl, arylalkyl, etc.; R6 = H, CHF2, CF3, etc.; X = (CH2)n; G = (un)substituted aryl, heterocycle or heteroaryl; Z = O or NR7; R7 = H, (un)substituted alkyl, alkenyl, etc.; n and m independently = 1-2] and their pharmaceutically acceptable salts, are prepared and disclosed as modulators of androgen receptor. Thus, e.g., III was prepared by hydrolysis of (2S,3R)-1-(3-chloro-4-cyano-2-methylphenylsulfamoyl)-3-hydroxy-pyrrolidine-2-carboxylic acid Me ester (preparation given) followed by cyclization. The activity of I was evaluated in transactivation assays of a transfected reporter construct and using the endogenous androgen receptor of the host cells (no data). I as modulator of androgen receptor should prove useful in the treatment of neoplasm, Alzheimer's disease and obesity. Pharmaceutical compns. comprising I are disclosed.

ACCESSION NUMBER: 2005:902874 HCAPLUS
DOCUMENT NUMBER: 143:248277
TITLE: Preparation of sulfonylpyrrolidines as modulators of androgen receptor
INVENTOR(S): Hamann, Lawrence H.; Bi, Yingzhi; Manfredi, Mark C.; Nirschl, Alexandra A.; Sutton, James C.
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
SOURCE: PCT Int. Appl., 91 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

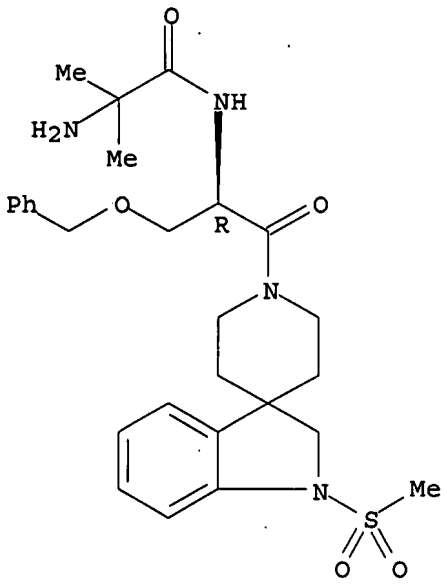
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005077925	A1	20050825	WO 2005-US2834	20050202
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1718626	A1	20061108	EP 2005-712320	20050202
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, TR, BG, CZ, EE, HU, PL, SK, HR, IS, YU				

PRIORITY APPLN. INFO.: US 2004-541869P P 20040204
WO 2005-US2834 W 20050202
OTHER SOURCE(S): MARPAT 143:248277
IT 159752-10-0, MK-677
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (claimed co-drug; preparation of sulfonylpyrrolidines as modulators of androgen receptor)
RN 159752-10-0 HCAPLUS
CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

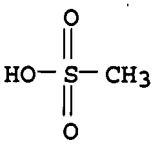
CRN 159634-47-6
CMF C27 H36 N4 O5 S

Absolute stereochemistry.



CM 2

CRN 75-75-2
CMF C H4 O3 S



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 10 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 8
ED Entered STN: 30 Jun 2005
AB The invention provides the combination of a growth hormone secretagogue and a p38 kinase inhibitor for use in treatment or prevention of a disease associated with deposition of Aβ in the brain.
ACCESSION NUMBER: 2005:564579 HCAPLUS
DOCUMENT NUMBER: 143:71802
TITLE: Growth hormone secretagogue-p38 kinase inhibitor combination for the treatment of Alzheimer's disease and related conditions
INVENTOR(S): Castro Pineiro, Jose Luis
PATENT ASSIGNEE(S): Merck Sharp & Dohme Limited, UK
SOURCE: PCT Int. Appl., 22 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

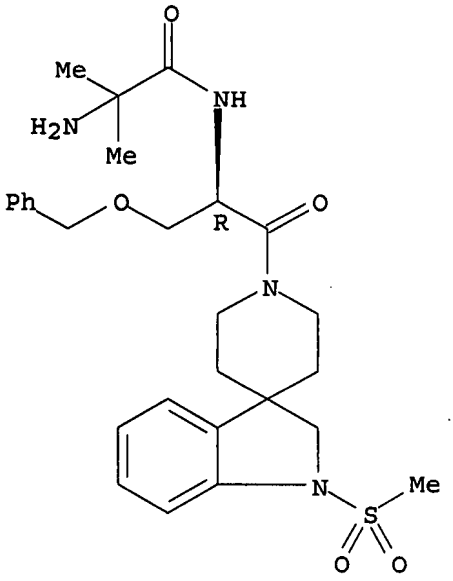
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005058308	A2	20050630	WO 2004-GB5234	20041214
WO 2005058308	A3	20050915		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,

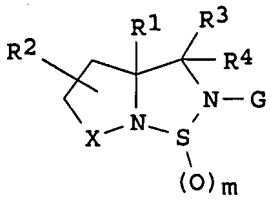
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: GB 2003-29275 A 20031218
OTHER SOURCE(S): MARPAT 143:71802
IT 159634-47-6
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(growth hormone secretagogue-p38 kinase inhibitor combination for treatment of Alzheimer's disease and related conditions)
RN 159634-47-6 HCAPLUS
CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl- (9CI) (CA INDEX NAME)

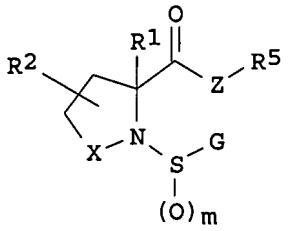
Absolute stereochemistry.



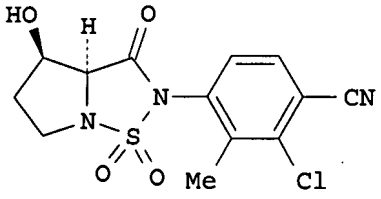
L11 ANSWER 11 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 9
ED Entered STN: 26 Aug 2005
GI



I



II



III

AB Title compds. I or II [R1 = H, (un)substituted alkyl, alkenyl, etc.; R2 = H, halo, SR6, etc.; R3 and R4 independently = H, (un)substituted alkynyl, cycloalkyl, etc.; R5 = H, (un)substituted aryl, arylalkyl, etc.; R6 = H, CHF2, CF3, etc.; X = (CH2)n; G = (un)substituted aryl, heterocycle or heteroaryl; Z = O or NR7; R7 = H, (un)substituted alkyl, alkenyl, etc.; n and m independently = 1-2] and their pharmaceutically acceptable salts, are prepared and disclosed as modulators of androgen receptor. Thus, e.g., III was prepared by hydrolysis of (2S,3R)-1-(3-chloro-4-cyano-2-methyl-phenylsulfamoyl)-3-hydroxy-pyrrolidine-2-carboxylic acid Me ester (preparation given) followed by cyclization. The activity of I was evaluated in transactivation assays of a transfected reporter construct and using the endogenous androgen receptor of the host cells (no data). I as modulator of androgen receptor should prove useful in the treatment of neoplasm, Alzheimer's disease and obesity. Pharmaceutical compns. comprising I are disclosed.

ACCESSION NUMBER: 2005:904349 HCAPLUS
DOCUMENT NUMBER: 143:248278
TITLE: Preparation of sulfonylpyrrolidines as modulators of androgen receptor
INVENTOR(S): Hamann, Lawrence G.; Bi, Yingzhi; Manfredi, Mark C.; Nirschl, Alexandra A.; Sutton, James C.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 35 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 2005187267	A1	20050825	US 2005-48439		20050201
PRIORITY APPLN. INFO.:			US 2004-541869P	P	20040204

OTHER SOURCE(S): MARPAT 143:248278

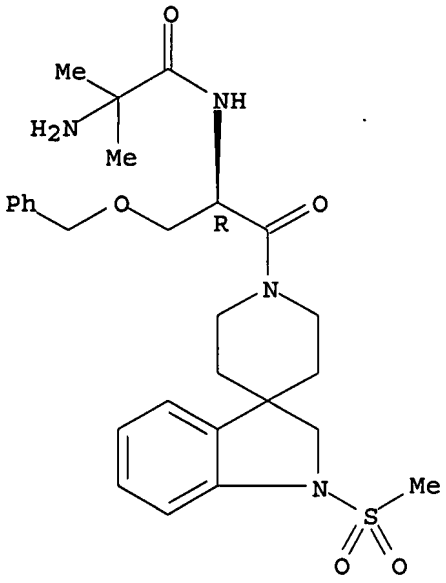
IT 159752-10-0
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(claimed co-drug; preparation of sulfonylpyrrolidines as modulators of androgen receptor)

RN 159752-10-0 HCAPLUS
CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

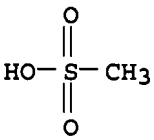
CRN 159634-47-6
CMF C27 H36 N4 O5 S

Absolute stereochemistry.

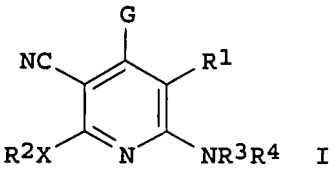


CM 2

CRN 75-75-2
CMF C H4 O3 S



L11 ANSWER 12 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 10
ED Entered STN: 19 Aug 2005
GI



AB A method is provided for treating androgen receptor-associated conditions, such as age-related diseases, e.g. sarcopenia, employing a compound I [R1 =

CN, H; X = O, S; R2 = (substituted) alkyl, (substituted) cycloalkyl, etc; R3, R4 = H, (substituted) alkyl, etc.; G = (substituted) aryl, (substituted) heteroaryl], or a pharmaceutically acceptable salt or prodrug ester thereof. Preparation of selected I is described. I may be used in combination with other agents.

ACCESSION NUMBER: 2005:824492 HCAPLUS
DOCUMENT NUMBER: 143:222525
TITLE: Method of using 3-cyano-4-arylpyridine derivatives as modulators of androgen receptor function, preparation thereof, and use with other agents
INVENTOR(S): Nirschl, Alexandra A.; Hamann, Lawrence G.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 25 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

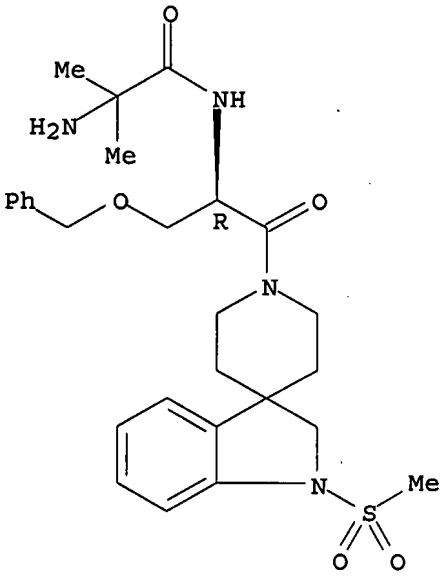
PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 2005182105	A1	20050818	US 2005-48437		20050201
PRIORITY APPLN. INFO.:			US 2004-541780P	P	20040204

OTHER SOURCE(S): MARPAT 143:222525
IT 159752-10-0, MK-677
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cyanoarylpyridine derivative modulators of androgen receptor function, preparation, and use with other agents)
RN 159752-10-0 HCAPLUS
CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

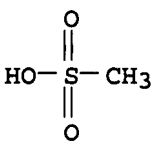
CRN 159634-47-6
CMF C27 H36 N4 O5 S

Absolute stereochemistry.



CM 2

CRN 75-75-2
CMF C H4 O3 S



L11 ANSWER 13 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 08 Sep 2005
AB GH-releasing peptides, including GHRP and morelin analogs, are claimed as neurite extension promoters for treatment of nerve system diseases, including dementia, memory disorder, and paralysis.
ACCESSION NUMBER: 2005:975900 HCAPLUS
DOCUMENT NUMBER: 143:242039
TITLE: GH-releasing peptides as neurite extension promoters for treatment of nerve system diseases
INVENTOR(S): Gomita, Hiroshi; Nikami, Kojiro; Shibata, Kazuhiko; Kano, Yoshio
PATENT ASSIGNEE(S): Kaken Pharmaceutical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

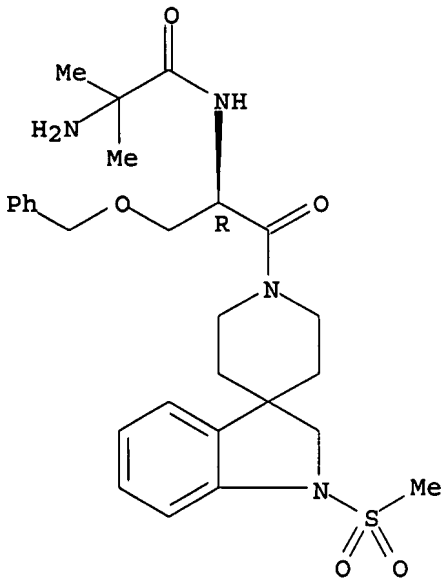
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005239712	A	20050908	JP 2005-23536	20050131
PRIORITY APPLN. INFO.:			JP 2004-22778 A	20040130

IT 159752-10-0, MK 0677
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(GH-releasing peptides as neurite extension promoters for treatment of nerve system diseases)
RN 159752-10-0 HCAPLUS
CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

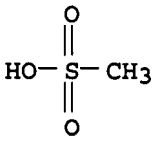
CRN 159634-47-6
CMF C27 H36 N4 O5 S

Absolute stereochemistry.



CM 2

CRN 75-75-2
CMF C H4 O3 S



L11 ANSWER 14 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 11
ED Entered STN: 23 Dec 2004
AB There is disclosed the combination of a growth hormone secretagogue and at least one agent which modifies the production or processing of Aβ in the brain, said at least one agent being selected from: (a) compds. which inhibit the secretion of Aβ; (b) compds. which selectively inhibit the secretion of the 1-42 isoform of Aβ; (c) compds. which inhibit the aggregation of Aβ; and (d) antibodies which selectively bind to Aβ; for use in treatment or prevention of a disease associated with deposition of Aβ in the brain. The growth hormone secretagogue is especially N-[1(R)-[(1,2-dihydro-1-methanesulfonylspiro[3H-indole-3,4'-piperidin]-1'-yl)carbonyl]-2-(phenylmethyloxy)ethyl]-2-amino-2-methylpropanamide. The amyloid modifier is especially R-flurbiprofen.

ACCESSION NUMBER: 2004:1124636 HCAPLUS
DOCUMENT NUMBER: 142:49251
TITLE: Growth hormone secretagogue combination with agent modifying production or processing of Aβ in brain in treatment for Alzheimer's disease and related conditions
INVENTOR(S): Castro Pineiro, Jose Luis
PATENT ASSIGNEE(S): Merck Sharp & Dohme Limited, UK
SOURCE: PCT Int. Appl., 34 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2004110443	A1	20041223	WO 2004-GB2381		20040604
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW					
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
AU 2004246849	A1	20041223	AU 2004-246849		20040604
CA 2528395	A1	20041223	CA 2004-2528395		20040604
EP 1638563	A1	20060329	EP 2004-736079		20040604
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK					
CN 1805746	A	20060719	CN 2004-80016539		20040604
JP 2006527244	T	20061130	JP 2006-516374		20040604
US 2006121034	A1	20060608	US 2005-560092		20051209
PRIORITY APPLN. INFO.:			GB 2003-13772	A	20030613
			WO 2004-GB2381	W	20040604

OTHER SOURCE(S): MARPAT 142:49251

IT 159752-10-0 159752-10-0D, salts
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(as growth hormone secretagogue; growth hormone secretagogue combination with agent modifying production or processing of Aβ in brain in treatment for Alzheimer's disease and related conditions)

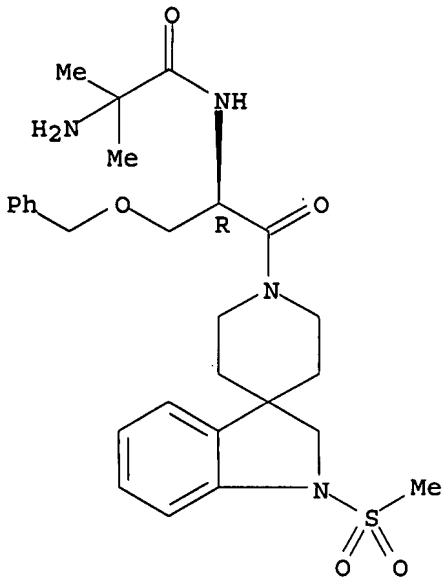
RN 159752-10-0 HCAPLUS

CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

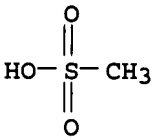
CRN 159634-47-6
CMF C27 H36 N4 O5 S

Absolute stereochemistry.



CM 2

CRN 75-75-2
CMF C H4 O3 S

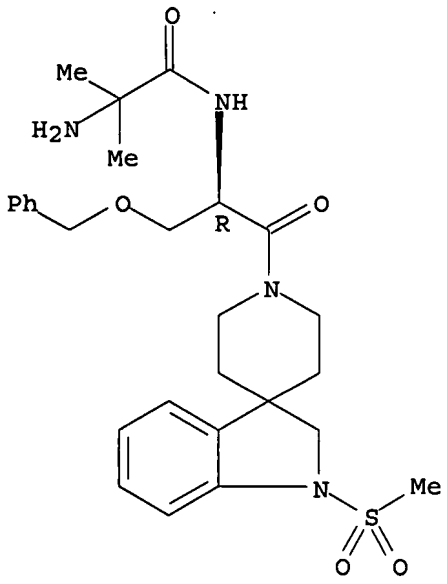


RN 159752-10-0 HCAPLUS
CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

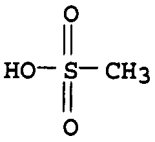
CRN 159634-47-6
CMF C27 H36 N4 O5 S

Absolute stereochemistry.



CM 2

CRN 75-75-2
CMF C H4 O3 S



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 15 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 12
ED Entered STN: 18 Oct 2004
AB The invention discloses the treatment or prevention of diseases involving deposition of β-amyloid in the brain, e.g. Alzheimer's disease, via the combined administration of a growth hormone secretagogue and a PDE4 inhibitor.

ACCESSION NUMBER: 2004:857402 HCAPLUS
DOCUMENT NUMBER: 141:325764
TITLE: Growth hormone secretagogue-phosphodiesterase 4 inhibitor combination for the treatment of Alzheimer's disease
INVENTOR(S): Castro Pineiro, Jose Luis
PATENT ASSIGNEE(S): Merck Sharp & Dohme Limited, UK
SOURCE: PCT Int. Appl., 20 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004087157	A2	20041014	WO 2004-GB1435	20040401
WO 2004087157	A3	20041118		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2004226698	A1	20041014	AU 2004-226698		20040401
CA 2521046	A1	20041014	CA 2004-2521046		20040401
CN 1764457	A	20060426	CN 2004-80008035		20040401
EP 1660086	A2	20060531	EP 2004-725099		20040401
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK					
JP 2006522084	T	20060928	JP 2006-506077		20040401
US 2006183764	A1	20060817	US 2005-552367		20051003
PRIORITY APPLN. INFO.:			GB 2003-7863	A	20030404
			WO 2004-GB1435	A	20040401

IT 159752-10-0 770710-32-2
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(growth hormone secretagogue-phosphodiesterase 4 inhibitor combination for treatment of Alzheimer's disease)

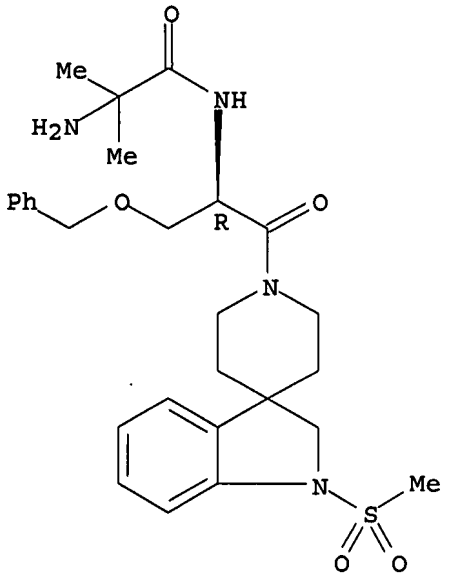
RN 159752-10-0 HCAPLUS

CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

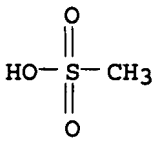
CRN 159634-47-6
CMF C27 H36 N4 O5 S

Absolute stereochemistry.



CM 2

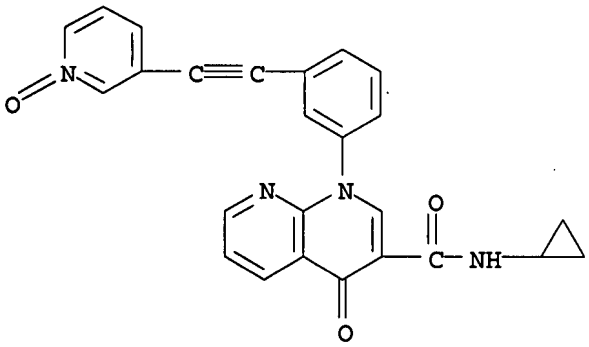
CRN 75-75-2
CMF C H4 O3 S



RN 770710-32-2 HCAPLUS
CN 1,8-Naphthyridine-3-carboxamide, N-cyclopropyl-1,4-dihydro-1-[3-[(1-oxido-3-pyridinyl)ethynyl]phenyl]-4-oxo-, mixt. with 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methylpropanamide (9CI) (CA INDEX NAME)

CM 1

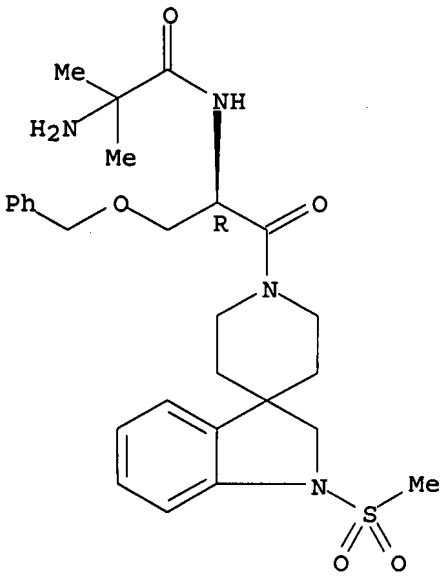
CRN 500355-52-2
CMF C25 H18 N4 O3



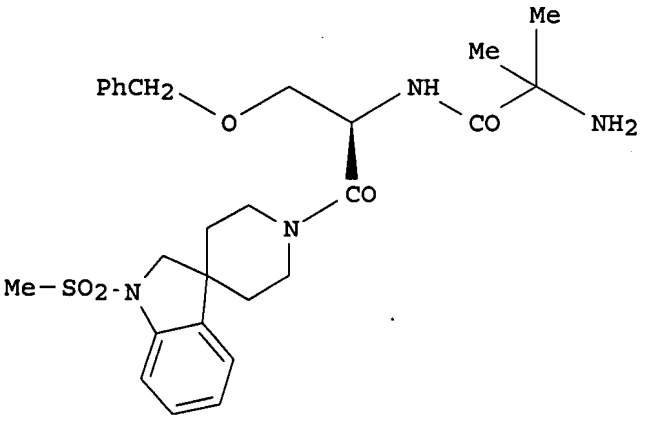
CM 2

CRN 159634-47-6
CMF C27 H36 N4 O5 S

Absolute stereochemistry.



L11 ANSWER 16 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 13
ED Entered STN: 24 Sep 2004
GI



I

AB The invention discloses the use of I, or a pharmaceutically acceptable salt thereof, for the manufacture of a medicament for the treatment of age-related cognitive decline or mild cognitive impairment, in particular with a view to preventing or delaying the onset of Alzheimer's disease.

ACCESSION NUMBER: 2004:780537 HCAPLUS
DOCUMENT NUMBER: 141:271591
TITLE: Method using a methanesulfonylspiroindolepiperidine derivative for treating mild cognitive impairment and for preventing or delaying Alzheimer's disease
INVENTOR(S): Shearman, Mark Steven; Turner, Mervyn
PATENT ASSIGNEE(S): Merck Sharp & Dohme Limited, UK; Merck & Co. Inc.
SOURCE: PCT Int. Appl., 23 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

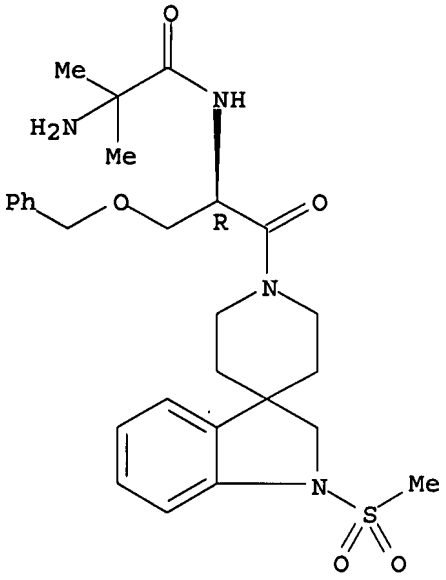
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004080459	A1	20040923	WO 2004-GB983	20040308
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004218871	A1	20040923	AU 2004-218871	20040308
CA 2518886	A1	20040923	CA 2004-2518886	20040308
EP 1605940	A1	20051221	EP 2004-718341	20040308
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
BR 2004008295	A	20060307	BR 2004-8295	20040308
CN 1794992	A	20060628	CN 2004-80006962	20040308
JP 2006520371	T	20060907	JP 2006-505929	20040308

NO 2005004714	A	20051116	NO 2005-4714		20051013
US 2006241133	A1	20061026	US 2006-549839		20060622
PRIORITY APPLN. INFO.:			US 2003-454589P	P	20030314
			WO 2004-GB983	A	20040308

IT 159634-47-6 159752-10-0
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(methanesulfonylspiroindolepiperidine derivative for treating mild cognitive impairment and preventing or delaying Alzheimer's disease)

RN 159634-47-6 HCAPLUS
CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

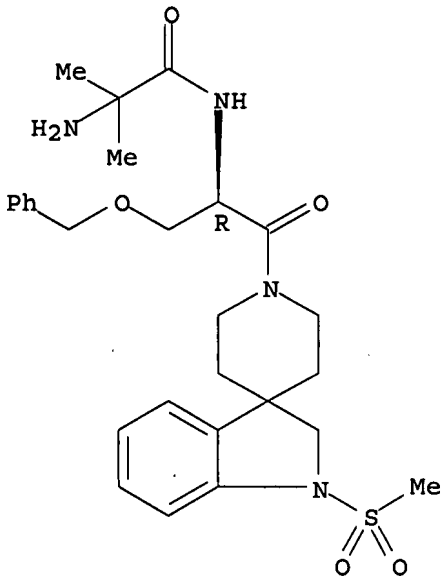


RN 159752-10-0 HCAPLUS
CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

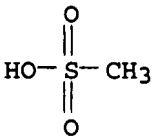
CRN 159634-47-6
CMF C27 H36 N4 O5 S

Absolute stereochemistry.



CM 2

CRN 75-75-2
CMF C H4 O3 S



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 17 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 14
ED Entered STN: 04 Jun 2004
AB The invention discloses methods for promoting neurogenesis by contacting neuronal tissue with intracellular cAMP-elevating agents and intracellular calcium ion-elevating agents. Agents for promoting neurogenesis are also disclosed.

ACCESSION NUMBER: 2004:453015 HCAPLUS
DOCUMENT NUMBER: 141:17632
TITLE: Methods and agents elevating cAMP and calcium ion for increasing neurogenesis
INVENTOR(S): Bertilsson, Goran; Erlandsson, Rikard; Frisen, Jonas; Haegestrand, Anders; Heidrich, Jessica; Hellstrom, Kristina; Haggblad, Johan; Jansson, Katarina; Kortesmaa, Jarkko; Lindquist, Per; Lundh, Hanna; McGuire, Jacqueline; Mercer, Alex; Njberg, Karl; Ossoinak, Amina; Patrone, Cesare; Ronnholm, Harriet; Zachrisson, Olof; Wikstrom, Lilian
PATENT ASSIGNEE(S): Neuronova AB, Swed.
SOURCE: PCT Int. Appl., 77 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004045592	A2	20040603	WO 2003-IB5311	20031120
WO 2004045592	A3	20041104		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2506850	A1	20040603	CA 2003-2506850	20031120
AU 2003280117	A1	20040615	AU 2003-280117	20031120
EP 1583541	A2	20051012	EP 2003-772495	20031120
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006514630	T	20060511	JP 2004-553032	20031120
CA 2546843	A1	20050909	CA 2004-2546843	20041119
WO 2005081619	A2	20050909	WO 2004-IB4451	20041119
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1750752	A2	20070214	EP 2004-821493	20041119
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, HR, LT, LV, MK, YU				

PRIORITY APPLN. INFO.:		
US 2002-427912P	P	20021120
US 2003-718071	A	20031120
WO 2003-IB305311	A	20031120
WO 2003-IB5311	W	20031120
US 2004-850055	A	20040519
WO 2004-IB4451	W	20041119

IT 159752-10-0, MK-677
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cAMP-elevating and calcium ion-elevating compds. for increasing neurogenesis)

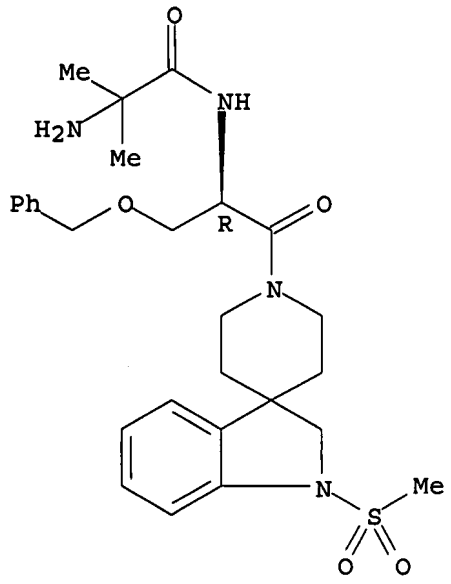
RN 159752-10-0 HCAPLUS

CN Propanamide, 2-amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methyl-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

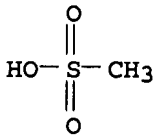
CRN 159634-47-6
CMF C27 H36 N4 O5 S

Absolute stereochemistry.

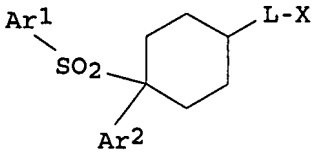


CM 2

CRN 75-75-2
CMF C H4 O3 S



L11 ANSWER 18 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 15 Apr 2004
GI



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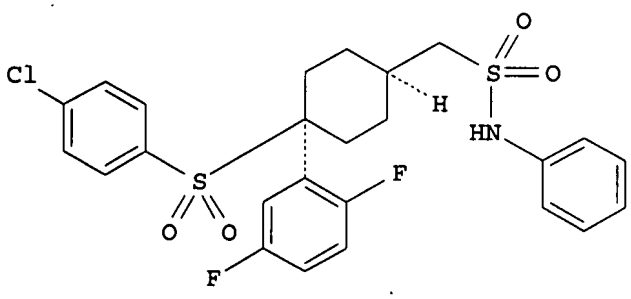

II

AB Aryl cyclohexyl sulfones (shown as I; variables defined below; e.g. II) inhibit the processing of APP by γ-secretase, and hence are useful in treatment of Alzheimer's disease. For I: X = SCN, SR1, S(O)R1, (CRaRb)mSO2R1, SO2N(R2)2, SO2NHCOR1, SO2NHN(R2)2, OSO2N(R2)2, OS(O)N(R2)2, OSO2NHCOR1, COR4, NHCOR1, NHCO2R1, NHCON(R2)2, NHSO2R1 or NHSO2N(R2)2; L = a bond, :CH- or -(CHRa)n- with provisos; n = 1-3; Ar1 and Ar2 = Ph or heteroaryl, either of which bears 0-3 halogen, CN, NO2, CF3, CHF2, OH, OCF3, CHO, CH:NOH, C1-4-alkoxy, C1-4-alkoxycarbonyl, C2-6-acyl, C2-6-alkenyl, and C1-4-alkyl; Ra = H, alkyl; Rb = H, alkyl, CO2H, alkoxycarbonyl, alkylsulfonyl; R1 = CF3, (substituted) alkyl, alkenyl, cycloalkyl, cycloalkylalkyl, aryl(alkyl), heterocyclyl(alkyl); R2 = H, (substituted) alkoxy, alkyl, alkenyl, cycloalkyl, cycloalkylalkyl; R3 = H, alkyl, Ph, heteroaryl; R4 = CRaRbSO2R1, pyridine N-oxide, substituted Ph, heteroaryl; addnl. details are given in the claims. Although the methods of preparation are not claimed, example prepns. and/or characterization data are included for <180 examples of I and some intermediates. For example, II was prepared from excess aniline and [cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]methanesulfonyl chloride, which was prepared from SO2Cl2, KNO3 and [cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]methanethiol, which was prepared from in 2 steps from iodo[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]methane, which was prepared photochem. from [cis-4-(4-Chlorophenylsulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]acetic acid, iodoisobenzene diacetate and I2. The examples all had an ED50 against γ-secretase of <1 μM, typically <0.5 μM, in most cases <100 nM, and in preferred cases <10 nM.

ACCESSION NUMBER: 2004:308409 HCAPLUS
DOCUMENT NUMBER: 140:321108
TITLE: Preparation of aryl cyclohexyl sulfones as γ-secretase inhibitors useful against Alzheimer's disease
INVENTOR(S): Churcher, Ian; Harrison, Timothy; Kerrad, Sonia; Oakley, Paul Joseph; Shaw, Duncan Edward; Teall, Martin Richard; Williams, Susannah
PATENT ASSIGNEE(S): Merck Sharp & Dohme Limited, UK
SOURCE: PCT Int. Appl., 78 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004031137	A1	20040415	WO 2003-GB4102	20030925
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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AU 2003267614	A1	20040423	AU 2003-267614	20030925
EP 1551797	A1	20050713	EP 2003-748306	20030925
EP 1551797	B1	20070221		
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JP 2006501292	T	20060112	JP 2004-540927	20030925
AT 354562	T	20070315	AT 2003-748306	20030925
US 2004122050	A1	20040624	US 2003-679557	20031006
US 7101895	B2	20060905		

PRIORITY APPLN. INFO.: GB 2002-23039 A 20021004
WO 2003-GB4102 W 20030925

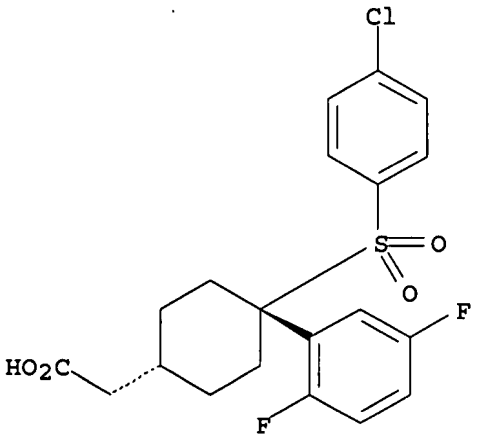
OTHER SOURCE(S): MARPAT 140:321108

IT 471903-69-2, [cis-4-(4-Chlorophenylsulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]acetic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of aryl cyclohexyl sulfones as γ-secretase inhibitors useful against Alzheimer's disease)

RN 471903-69-2 HCAPLUS

CN Cyclohexaneacetic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)-, cis- (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 19 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 07 Mar 2003

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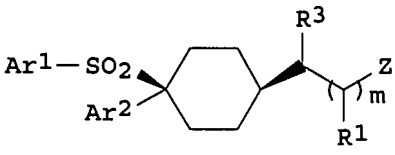

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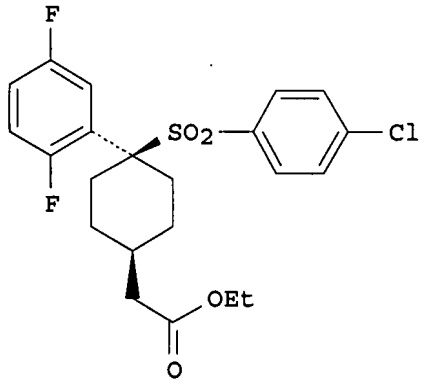

II

AB Title sulfones I [wherein m = 0-1; Z = CN, OR2, CO2R2, or CON(R2)2; R1 = H, alkyl, or OH; R2 and R4 = independently H or (un)substituted alkyl, cycloalkyl(alkyl), alkenyl, or (hetero)aryl; or N(R2)2 or N(R4)2 = independently (un)substituted heterocyclyl; R3 = H or alkyl; or pharmaceutically acceptable salts thereof] were prepared For example, oxidative coupling of 4-chlorothiophenol with 2,5-difluorobenzyl bromide gave 1-[[(4-chlorophenyl)sulfonyl]methyl]-2,5-difluorobenzene. Reaction

with Me acrylate and KOBu in THF, followed by heating to 150° for 2 h in a solution of DMSO, NaCl, and H2O afforded 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexanone. Condensation of the ketone with Et (diethoxyphosphinyl)acetate in the presence of NaH in THF provided the alkylidene derivative (88%), which was reduced with NaBH4 to give (cis)-II (36%). I modulate the processing of amyloid precursor protein by γ-secretase and hence are useful in the treatment or prevention of Alzheimer's disease (no data).

ACCESSION NUMBER: 2003:173575 HCAPLUS
DOCUMENT NUMBER: 138:221350
TITLE: Preparation of 1-phenyl-1-(arylsulfonyl)cyclohexanes for treatment of Alzheimer's disease
INVENTOR(S): Churcher, Ian; Dinnell, Kevin; Harrison, Timothy; Kerrad, Sonia; Nadin, Alan John; Oakley, Paul Joseph; Shaw, Duncan Edward; Teall, Martin Richard; Williams, Brian John; Williams, Susannah
PATENT ASSIGNEE(S): Merck Sharp & Dohme Limited, UK
SOURCE: PCT Int. Appl., 39 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2003018543	A1	20030306	WO 2002-GB3806		20020816
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WO 2002081435	A1	20021017	WO 2001-GB3741		20010821
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CA 2456420	A1	20030306	CA 2002-2456420		20020816
EP 1421062	A1	20040526	EP 2002-758542		20020816
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BR 2002011635	A	20040713	BR 2002-11635		20020816
HU 200401241	A2	20041129	HU 2004-1241		20020816
JP 2005501120	T	20050113	JP 2003-523207		20020816
JP 3711131	B2	20051026			
NZ 530581	A	20060428	NZ 2002-530581		20020816
ZA 2004000406	A	20041028	ZA 2004-406		20040120
IN 2004CN00345	A	20051223	IN 2004-CN345		20040219
NO 2004001185	A	20040319	NO 2004-1185		20040319
PRIORITY APPLN. INFO.:			GB 2001-20347	A	20010821
			WO 2001-GB3741	W	20010821
			GB 2001-8591	A	20010405
			WO 2002-GB3806	W	20020816

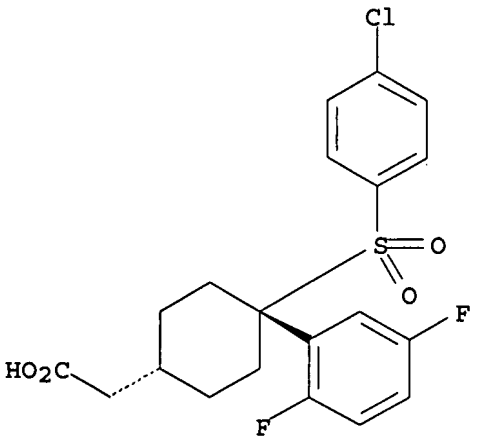
OTHER SOURCE(S): MARPAT 138:221350
IT 471903-69-2P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(anti-Alzheimer's agent; preparation of phenylcyclohexyl aryl sulfones for treatment of Alzheimer's disease)

RN 471903-69-2 HCAPLUS

CN Cyclohexaneacetic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)-, cis- (CA INDEX NAME)

Relative stereochemistry.

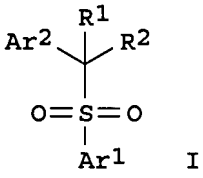


REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 20 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 18 Oct 2002

GI



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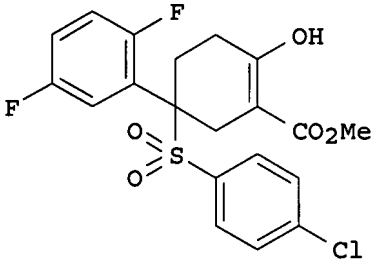

II

AB Title compds. I [R1 and R2 together from a (un)substituted saturated or unsatd. ring of 4-7 atoms of which at most 2 are selected from N, O, and S with the remaining being C; Ar1 and Ar2 independently equal (un)substituted aryl or heteroaryl] and their pharmaceutically acceptable salts are disclosed as modulators of gamma secretase (no data). Thus, II was prepared via condensation of 4-chlorothiophenol with 2,5-difluorobenzyl bromide, oxidation of intermediate thioether and subsequent cyclization with Me acrylate. As modulators of the action of g-secretase, I are useful in the treatment or prevention of Alzheimer's disease.

ACCESSION NUMBER: 2002:793593 HCAPLUS

DOCUMENT NUMBER: 137:310695

TITLE: Preparation of aryl sulfones which modulate the action of gamma secretase

INVENTOR(S): Castro Pineiro, Jose Luis; Churcher, Ian; Dinnell, Kevin; Harrison, Timothy; Kerrad, Sonia; Nadin, Alan

John; Oakley, Paul Joseph; Owens, Andrew Pate; Shaw, Duncan Edward; Teall, Martin Richard; Williams, Brian John; Williams, Susannah

PATENT ASSIGNEE(S): Merck Sharp & Dohme Limited, UK

SOURCE: PCT Int. Appl., 159 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2002081435	A1	20021017	WO 2001-GB3741		20010821
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CA 2442882	A1	20021017	CA 2001-2442882		20010821
AU 2001279971	A1	20021021	AU 2001-279971		20010821
EP 1379498	A1	20040114	EP 2001-958247		20010821
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JP 2004533428	T	20041104	JP 2002-579423		20010821
CA 2456420	A1	20030306	CA 2002-2456420		20020816
WO 2003018543	A1	20030306	WO 2002-GB3806		20020816
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EP 1421062	A1	20040526	EP 2002-758542		20020816
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BR 2002011635	A	20040713	BR 2002-11635		20020816
CN 1545501	A	20041110	CN 2002-816325		20020816
HU 200401241	A2	20041129	HU 2004-1241		20020816
JP 2005501120	T	20050113	JP 2003-523207		20020816
JP 3711131	B2	20051026			
NZ 530581	A	20060428	NZ 2002-530581		20020816
US 2003114496	A1	20030619	US 2002-223993		20020820
US 6984663	B2	20060110			
US 2004116404	A1	20040617	US 2003-473727		20031001
IN 2004CN00345	A	20051223	IN 2004-CN345		20040219
NO 2004001185	A	20040319	NO 2004-1185		20040319
US 2006041020	A1	20060223	US 2005-261365		20051028
PRIORITY APPLN. INFO.:			GB 2001-8591	A	20010405
			GB 2001-20347	A	20010821
			WO 2001-GB3741	W	20010821
			WO 2002-GB3806	W	20020816
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OTHER SOURCE(S): MARPAT 137:310695

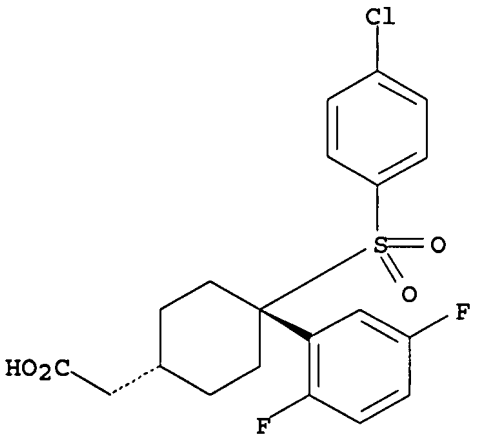
IT 471903-69-2P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); RACT (Reactant or reagent); USES (Uses)
(drug candidate; preparation of aryl sulfones as modulators of gamma secretase useful for the treatment of Alzheimer's disease)

RN 471903-69-2 HCAPLUS

CN Cyclohexaneacetic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)-, cis- (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FULL ESTIMATED COST	144.40	494.06
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-15.60	-15.60

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